SPCM Lab-10

Objective: Creating a AWS RDS Instance in Terraform.

1. Create Terraform directory.

```
→ ~ mkdir terraform-rds
→ ~ cd <u>terraform-rds</u>
-> terraform-rds
```

2. Create terraform configuration file (main.tf):

```
🍟 main.tf 2 🗙
🦖 main.tf > 😭 resource "aws_db_instance" "My-RDS"
      provider "aws" {
       region = "us-east-1"
        access key = "AKIA232UVZYDK5TANG62"
       secret key = "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"
      resource "aws db instance" "My-RDS" {
       allocated storage = 10
       identifier = "vidhantdb'
engine = "mysql"
engine_version = "5.7"
instance_class = "db.t3.micro"
                                     = "vidhantdb" //name of database
 11
 13
        username = "admin"
password = "admin123"
        parameter_group_name = "default.mysql5.7"
skip_final_snapshot = true
        publicly_accessible = true //opens public access
         tags = {
          Name = "Myrdsdb"
```

3. Initialize, validate and Apply:

terraform init:

```
■ Lab-9 terraform init
Initializing the backend...

Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.37.0...
- Installed hashicorp/aws v5.37.0 (signed by HashiCorp)

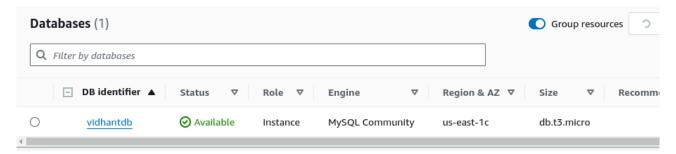
Terraform has created a lock file .terraform.lock.hcl to record the provider selections it made above. Include this file in your version control repository so that Terraform can guarantee to make the same selections by default when
```

terraform validate:

```
    → Lab-9 terraform validate
    Success! The configuration is valid.
    → Lab-9
```

terraform apply:

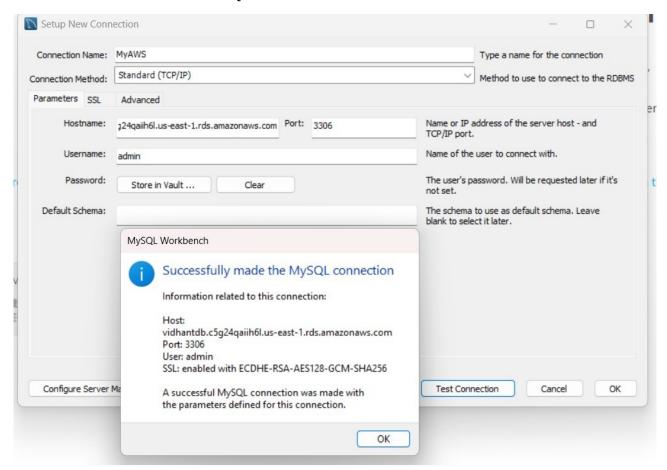
4. Verify Users in AWS console:



Add inbound rules in security group to access RDS from local MYSQL workbench:

					0.0.0.0/0 X
sgr-0a0220e58a8f863f4	All traffic ▼	All	All	Custom ▼	Q
					sg-000d45b6ae6f35907 🗶
Add rule					

5. Connect RDS instance to MYSQL Workbench:



6. Clean up Resources (terraform destroy):